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IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1 1. (original) A method for registering at least one access point with a gateway in a
2 network, comprising:
3 broadcasting from a gateway, a discovery message to said at least one access
4 point in said network;
5 receiving from at least one access point receiving said discovery message, an
6 access point registration request comprising access point location, IP address, MAC
7 address, radio type, and power level information of said access point; and
8 storing said access point registration request information at said gateway.
- 1 2. (original) The method of claim 1, wherein each access point selects a random
2 delay prior to sending said access point registration request to said broadcasting gateway.
- 1 3. (original) A method for registering at least one access point with a gateway in a
2 network, comprising:
3 broadcasting a gateway discovery query message from said at least one access
4 point;
5 receiving from said at least one gateway, a respective service discovery message;
6 selecting an appropriate gateway in an instance where more than one service
7 discovery message is received; and
8 sending an access point registration request comprising access point location, IP
9 address, MAC address, radio type, and power level information of said access point to
10 said selected gateway.
- 1 4. (original) The method of claim 3, wherein said selecting further comprises:
2 determining if said access point is currently registered; and

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3 sending said service discovery message to said access point.

1 5. (original) The method of claim 3, wherein said selecting comprises:

2 determining an appropriate gateway using at least one of the following: a cost of
3 using a gateway, a load at a gateway, and system features provided by a gateway.

1 6. (original) The method of claim 3, wherein said sending an access point
2 registration request further comprises sending security information in said access point
3 registration request.

1 7. (original) The method of claim 6, wherein each access point selects a random
2 delay prior to sending said access point registration request to said gateway.

8. - 32. (canceled)

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